



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Stephen Titus

Application No.: 10/710,631

Group: 3711

Filed: July 26, 2004

Examiner: Mark S. Graham

Confirmation No.: 4338

For: HYBRID BILLIARD CUE SHAFT

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<u>10/25/07</u> Date	<u>[Signature]</u> Signature
<u>Samantha Helman</u> Typed or printed name of person signing certificate	

Mail Stop RCE
Commissioner for Patents
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Sir:

Transmitted herewith is an Amendment for filing in the above-identified application.

- ☐ Small entity status of this application under 37 CFR 1.9 and 1.27 has been established by a Small Entity Statement previously submitted.
- ☐ A Small Entity Statement to establish small entity status under 37 CFR 1.9 and 1.27 is enclosed.

The claims fee has been calculated as shown below:

					SMALL ENTITY		OTHER THAN SMALL ENTITY			
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDIT. FEE	OR	RATE	ADDIT. FEE	
TOTAL	2	MINUS	* 20	0	X \$ 25	\$		X 50	\$ 0	
INDEP	2	MINUS	** 3	0	X \$ 105	\$		X \$ 210	\$ 0	
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEP. CLAIM					+	\$ 185	\$	+	\$ 370	
					TOTAL = \$		0	TOTAL = \$		0

* not fewer than 20
** not fewer than 3

The Application Size Fee has been calculated as shown below:

(Effective for cases filed on or after December 8, 2004)

Actual Sheets (Including current amendment)	Highest No. of Sheets Paid For (At least 100)	No. of Additional Units Required (Increments of 50 sheets)	SMALL ENTITY		OTHER THAN SMALL ENTITY		Payment Sufficient for up to
			Rate	Total Amount Owed	Rate	Total Amount Owed	
			X \$ 130	\$[]	X \$ 260	\$[]	[] Sheets

Petition for Extension of Time

- ☐ Applicant hereby petitions to extend the time to respond to the [] dated [] for [] month(s) from [] to []. The appropriate fee is set forth below.
- ☐ [For action-specific language in an extension of time, select the appropriate option from the Firm Templates]

Please charge Deposit Account No. 08-0380 for the following fees:

<input type="checkbox"/>	Petition for [] month Extension of Time	\$	_____
<input type="checkbox"/>	Claims Fee	\$	_____
<input type="checkbox"/>	Application Size Fee	\$	_____
<input type="checkbox"/>	Other Fees:	\$	_____
		\$	_____
		\$	_____
TOTAL:		\$	_____

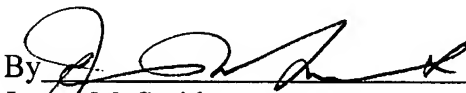
A check is enclosed in payment of the following fees:

<input type="checkbox"/>	Petition for [] month Extension of Time	\$	_____
<input type="checkbox"/>	Claims Fee	\$	_____
<input type="checkbox"/>	Application Size Fee	\$	_____
<input checked="" type="checkbox"/>	Other Fees:		_____
	Request for Continued Examination	\$	810
		\$	_____
TOTAL:		\$	810

- ☒ Please charge any deficiency or credit any overpayment in the fees that may be due in this matter to Deposit Account No. 08-0380. A copy of this letter is enclosed for accounting purposes.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By 
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Dated: 10/25/7



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EXPLANATION FOR NON-ENGLISH REFERENCE B2

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Alexandria, VA 22313-1450

Sir:

In order to fulfill the "concise explanation" requirement (non-English references) for reference B2 under 37 CFR 1.98(a)(3), the following explanation is provided.

An English language abstract for Ref. B2 was unavailable on search databases: esp@cenet and Derwent. Upon checking the database German Patents Fulltext, the attached Description of non-English reference B2 was located.

Please feel free to contact the undersigned with any questions.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

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Dated: 10/25/7



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German Patents Fulltext

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Patent and Priority Information (Country, Number, Date):

Patent: DE 9107864 U1 19910919

Application: DE 9107864 19910626

Priority Application: DE 9107864 U 19910626 (DE 9107864)

Main International Patent Class (v7): A63D-015/08

Main European Patent Class: A63D-015/08

Publication Language: German

Fulltext Word Count (English): 1246

Description (English machine translation)

* degrees the invention concerns a Billardstock pursuant to the generic term of the demand 1.

A for a long time well-known Billardstock consists that of wood material, is sensitive against a deformation caused by a large number of 20 of environmental factors. A also well-known, late manufactured Billardstock consists of fiber-reinforced plastic material. This is generally superior to a wooden Billardstock concerning the deformation resistance. Nevertheless it was adopted up r

n * degrees reason of its pronounced stiffness and the lack of suitable elasticity of the gamblers only few. Beyond that the well-known Billardstock is in such a manner manufactured that it juengt itself gradually from the grasp to the stick point en. It therefore exhibits the disadvantage that it possesses tenor ou denz for offering swivelling, if a gambler up one aims to billard ball and pushes away at the same time with a hand as lever base on the spielflaeche of a billardtisches, in order to play the billard ball with the other hand.

The invention is therefore the basis the task, the genericpursuant to-eaten Billardstock for removal geschilderteni.

to train further el disadvantages in such a manner that it exhibits the benefits of a wooden stick and a fiber-reinforced plastic stick for the decrease of the goal inconsistency.

The characteristics of the invention established for the solution of this task result from demand 1. Favourable arrangements of it are described in the further demands.

According to invention established the Billardstock exhibits stick seaweeds with one at an end fastened stick point and one to the other end fastened piece of coming to a hold. The stick seaweeds possesses a wooden core, which is surrounded by a

casing from fiber-reinforced plastic material, and she exhibits a stick point, which is fastened to a homogeneous section, which is designed as section of the stick seaweeds with continuous same outside diameter. The stick seaweeds exhibits itself further a tapering section, at which the homogeneous off cut is fastened. The homogeneous section exhibits prefers a length of 27,94 cm (11 inches) to 48.26 cm (19 inches). The outside diameter of the homogeneous section preferably lies within the range of 0,89 cm (0.35 inches) to 1.65 cm (0.65 inches). The wood core is protected and therefore unanfaellig of the casing from fiber-reinforced plastic material from one of environmental factors caused deformation. Besides the Billardstock according to invention reduces the tendency upward of swivelling appearing when aiming at a billard ball to a minimum, if a gambler thereby plays the billard ball. This happens due to the homogeneous section, which is held by the hand of the gambler, if this stays on the spielflaeche of a billardtisches as swiveling point, in order to play the billard ball with the other hand.

The invention is more near described in the following on the basis the design. This points to Fig. 1 perspectively a preferential execution form of the invention; Fig. 2 a cross section along line 2-2 after Fig. 1; Fig. 3 schematically an increased front section of the preferential execution form; Fig. 4 schematically the tendency upward of swivelling when aiming at a billard ball with the well-known Billardstock und Fig. 5 schematically the circumstance between the Schwenk-15 point and the target line, if the Billardstock according to invention is directed toward a billard ball.

As from Fig. evidently, the represented Billardstock 10 exhibits 1-3 stick seaweeds 12, from leather manufactured and at the front end of the stick seaweeds 12 a fastened stick point 14 as well as a piece of coming to a hold of 16 manufactured from rubber, which are fastened to the rear end of the stick seaweeds 12. Additionally exhibits the stick seaweeds 12 a first stangenabschnitt 121, a second stangenabschnitt 122 and one joint 123, which connect the first stangenabschnitt 121 with the second stangenabschnitt 122.

The stick seaweeds 12 possesses a bar core manufactured from maple wood 18, which verwoben of a casing 20 from a much of number of with one another, carbon-containing and fiber boards pre-impregnated in Epoxyharz is surrounded. The stick seaweeds 12 by the fact it is manufactured that either the bar core 18 under pressure and heat, surrounded by a large number of pre-impregnated carbon-containing fiber boards, is formed or first the casing 20 from a large number of pre-impregnated carbon-containing fiber boards under pressure and heat with a hollow inside is formed and afterwards the bar core 18 into the hollow inside of the casing 20 brought.

The Billardstock 10 exhibits an overall length of approximately 145 cm 5 (57 inches). The homogeneous section 22 of the Billardstocks 10 points a length from to approximately 30.48 cm (12 inches) as well as a continuous an outside diameter of essentially

1.19, over the entire section, cm (0.47 inches) up and is, as from Fig. 3 evidently, between 10 of the stick point 14 and itself a tapering section 24 arranged. The maximum outside diameter of the tapering section 24 consists of itself essentially 3.05 cm (1.2 inches).

As from Fig. 4 evidently, the goal LINE 2 runs when aiming at a billard ball directed via a stationary swiveling point 1 with a well-known Billardstock diagonally upward. This phenomenon of the goal inconsistency is caused of the well-known Billardstock, which is gradually from the rear section to the stick point of tapering stick seaweeds formed of. In contrast to this the described Billardstock 10 exhibits a continuously homogeneous section 22, which is moved backward by a gambler when aiming at the billard ball over a stationary swivelling point 1 before and. As from Fig. 5 evidently, the inconsistency of the target line 3 is effectively avoided, as long as reciprocating movement of the Billardstocks 10 at the stationary swiveling point 1 expires within the borders of the homogeneous section 22. Therefore derBillardstock 10 the well-known Billardstock is superior regarding the precision when pushing the billard ball.

Regarding managing in individual characteristics of the invention not described more near in all other respects expressly to 35 the demands and the design is referred.

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Claims (English machine translation)

1. Billardstock with stick seaweeds (12), by casing (20) from fiber-reinforced plastic material surrounded wooden bar core (18), to end stick seaweeds (12) fastened stick point (14) and to other end stick seaweeds (12) fastened piece of coming to a hold (16) exhibits, thereby characterized that the stick seaweeds (12) a homogeneous section (22) of certain length and continuous outside diameter up to the end, to which the stick point (14) is fastened, exhibits and that it possesses itself a tapering section (24), with whose it is connected to an end of the gleichfoer mige section (22), whereby the tapering section (24) an outside diameter increasing gradually to the piece of coming to a hold of (16) possesses itself.
2. Billardstock according to demand 1, by the fact gekennzeichnet-25 net that the homogeneous section (22) exhibits a length between 27,94 cm and 48.26 cm.
3. Billardstock according to demand 1, by the fact characterized that the homogeneous section (22) exhibits an optimum outside diameter within the range of 0,889 cm to 1.651 cm. ' 198
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